

ABSTRACT

An apparatus and method for detecting a power ratio between a traffic channel and a pilot channel in a mobile communication system. The apparatus is operable to
5 generate a second signal by performing channel estimation using a second channel signal, and generate a first signal by channel-compensating the first channel signal using the second signal. The apparatus is further operable to generate absolute values of symbols constituting the first signal, select absolute values in a predetermined length after sorting the absolute values in magnitude order, calculate an average value of the
10 selected absolute values, calculate a square of an absolute value of the second signal, and generate the power ratio using a ratio of the average value to the square of the absolute value of the second signal.